

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 07-1004)TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER

2224-125US//P28,090-A-USA

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/519313

INTERNATIONAL APPLICATION NO.  
PCT/US03/20285INTERNATIONAL FILING DATE  
26 June 2003PRIORITY DATE CLAIMED  
27 June 2002

## TITLE OF INVENTION

GAS ANALYZER FOR MEASURING THE FLAMMABILITY OF MIXTURES OF COMBUSTIBLE GASES AND OXYGEN

## APPLICANT(S) FOR DO/EO/US

SCHAEFFER, Christopher G.; SCHAEFFER Matthew James; PATEL, Pravin K.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☒ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 515 411 655 US
23. ☒ Other items or information:

Form PCT/IB/308 - 1 page; PCT/IPEA/401 - 6 pages; PCT/IPEA/402 - 1 page; Acknowledgement Post Card; Express Mail Certificate

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/519313</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US03/20285</b>		ATTORNEY'S DOCKET NUMBER <b>2224-125US//P28,090-A-US</b>	
24. The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)) :</b> <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1080.00</b> <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$920.00</b> <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$770.00</b> <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$730.00</b> <input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b> <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				<b>CALCULATIONS PTO USE ONLY</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				<b>\$0.00</b>	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	18 - 20 =	0	x \$50.00	<b>\$0.00</b>	
Independent claims	3 - 3 =	0	x \$200.00	<b>\$0.00</b>	
Multiple Dependent Claims (check if applicable).			<input type="checkbox"/>	<b>\$0.00</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$100.00</b>	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				<b>\$50.00</b>	
<b>SUBTOTAL =</b>				<b>\$50.00</b>	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				<b>\$0.00</b>	
<b>TOTAL NATIONAL FEE =</b>				<b>\$50.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).			<input type="checkbox"/>	<b>\$0.00</b>	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$50.00</b>	
				Amount to be: refunded	\$
				charged	\$

- a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees.
- c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3040
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Roy J. Rosser, Ph.D. Reg. No. 53,533  
 Synnestvedt Lechner & Woodbridge LLP  
 P.O. Box 592  
 Princeton, NJ 08542  
 609-924-3773 phone  
 609-924-1811 fax

Roy J. Rosser  
 SIGNATURE

Roy J. Rosser, Ph.D.  
 NAME

53,533  
 REGISTRATION NUMBER

12/23/04  
 DATE

10/519313

DT09 Rec'd PCT/PTO 23 DEC 2004  
PTO-2038 (02-2003)

Approved for use through 02/28/2006. OMB 0641-0043

United States and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## UNITED STATES PATENT AND TRADEMARK OFFICE

## CREDIT CARD PAYMENT FORM

PLEASE READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

## CREDIT CARD INFORMATION

Credit Card Type: ☐ Visa ☐ MasterCard ☒ American Express ☐ Discover

Credit Card Account No.: 3782 950368 31055

Credit Card Expiration Date: July, 2006

Name as it Appears on Credit Card: Roy D. Rosser

Payment Amount: (US Dollars): \$50.00

Cardholder Signature: Roy Rosser

Date: 12/23/04

**Refund Policy:** The Office may refund a fee paid by mistake or in excess of that required. A change of purpose after the payment of a fee will not entitle a party to a refund of such fee. The office will not refund amounts of \$25.00 or less unless a refund is specifically requested, and will not notify the payor of such amounts (37CFR § 1.26). Refund of a fee by credit card will be issued as a credit to the credit card account to which the fee was charged.

**Service Charge:** There is a \$50.00 service charge for processing each payment refused (including a check return "unpaid") or charged back by a financial institution (37 CFR § 1.21 (m)).

## CREDIT CARD BILLING ADDRESS

Street Address 1: 112 Nassau Street

Street Address 2: P.O. Box 592

City: Princeton

State/Province: New Jersey

Zip/Postal Code: 08542

Country: USA

Daytime Phone No.: 609-924-3773

Fax No.: 609-924-1811

## REQUEST AND PAYMENT INFORMATION

## Description of Request and Payment Information:

<input checked="" type="checkbox"/> Patent Fee National Phase Filing Fee	<input type="checkbox"/> Patent Maintenance Fee	<input type="checkbox"/> Trademark Fee	<input type="checkbox"/> Other Fee *
Application No.	Application No.	Application No.	IDON Customer No.
Patent No.	Patent No.	Registration No.	
Attorney Docket No. 2224-125US// P28090-A-USA		Identify or Describe Mark	

If the cardholder includes a credit card number on any form or document other than the Credit Card Payment Form, the United States Patent and Trademark Office will not be liable in the event that the credit card number becomes public knowledge.

\*Other Fee Includes – Assignments - Copies of Patent and Trademark Documents; Certified Copies; and other information products

DT09 Rec'd PCT/PTO 2 3 DEC 2004  
10/519313

EXPRESS MAIL NUMBER EV 515 411 655 US  
FILE NUMBER 2224-125US//P28090-A-USA

"EXPRESS MAIL CERTIFICATE"

"Express Mail" Mailing Label Number: EV 515 411 655 US

Express Mail Corporate Account Number: X085783

Date of Deposit: 12/23/04

Title: GAS ANALYZER FOR MEASURING THE FLAMMABILITY OF MIXTURES OF  
COMBUSTIBLE GASES AND OXYGEN

Inventors: Christopher G. Schaeffer  
Matthew James Schaeffer  
Pravin K. Patel

Type of Documents:

1. Transmittal Letter to the US Designated/Elected Office – 2 pages
2. USPTO Form 2038 – Credit Card Authorization – 1 page
3. Preliminary Amendment – 4 pages
4. Unexecuted Declaration and Power of Attorney – 4 pages
5. PCT Notification of IPER and IPER – 4 pages
6. PCT Notification of Search Report and International Search Report – 5 pages
7. Published International Application PCT/US03/020285  
(incl. cover and Int'l Search Report) – 34 pages
8. PCT/IB 308 – 1 page
9. PCT Demand – 6 pages
10. PCT Notification of Receipt of Demand – 1 page
11. Express Mail Certificate – 1 page
12. Acknowledgement Post Card – 1 page

I hereby certify that the enclosed documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Patent and Trademark Office, Mail Stop PCT; Box 1450, Alexandria, VA 22313-1450

Roy J. Rosser, Ph.D.; Reg. No. 53,533

(Typed or printed name of person mailing paper or fee)

Roy J. Rosser  
(Signature of person mailing paper or fee)